

L Number	Hits	Search Text	DB	Time stamp f
1	30	(385/77).ccls. and (fiber same (electric\$2 near4 (contact or connect\$3 or conductor or pin)))	USPAT; US-PGPUB; EPO; JPO	2003/08/20 08:35
2	68	(385/78).ccls. and (fiber same (electric\$2 near4 (contact or connect\$3 or conductor or pin))) not (385/77,147).ccls.	USPAT; US-PGPUB; EPO; JPO	2003/08/20 09:18
3	8	(385/85).ccls. and (fiber same (electric\$2 near4 (contact or connect\$3 or conductor or pin))) not (385/77,147,78).ccls.	USPAT; US-PGPUB; EPO; JPO	2003/08/20 09:21
4	35	(385/139).ccls. and (fiber same (electric\$2 near4 (contact or connect\$3 or conductor or pin))) not (385/77,147,78,85).ccls.	USPAT; US-PGPUB; EPO; JPO	2003/08/20 09:56
5	62	(356/73.1).ccls. and (fiber same (electric\$2 near4 (contact or connect\$3 or conductor or pin))) not (385/77,147,78,85,139).ccls.	USPAT; US-PGPUB; EPO; JPO	2003/08/20 10:16
6	43	(250/227.14).ccls. and (fiber same (electric\$2 near4 (contact or connect\$3 or conductor or pin))) not (385/77,147,78,85,139).ccls.	USPAT; US-PGPUB; EPO; JPO	2003/08/20 10:27
7	15	(250/227.28).ccls. and (fiber same (electric\$2 near4 (contact or connect\$3 or conductor or pin))) not (385/77,147,78,85,139).ccls. not (250/227.14).ccls.	USPAT; US-PGPUB; EPO; JPO	2003/08/20 10:32
8	4789	((250/227.28,227.14).ccls. or (356/73.1).ccls. or (385/77,78,85,139,147).ccls.) and (fiber same\$2 (electric\$2 near4 (contact or connect\$3 or conductor or pin))) not (fiber same (electric\$2 near4 (contact or connect\$3 or conductor or pin)))	USPAT; US-PGPUB; EPO; JPO	2003/08/20 10:54
9	253	((250/227.28,227.14).ccls. or (356/73.1).ccls. or (385/77,78,85,139,147).ccls.) and (fiber same\$2 (electric\$2 near4 (contact or connect\$3 or conductor or pin))) and ((detect or sense) near3 fiber) not (fiber same (electric\$2 near4 (contact or connect\$3 or conductor or pin)))	USPAT; US-PGPUB; EPO; JPO	2003/08/20 11:31
12	1982	(fiber same (electric\$2 near4 (contact or connect\$3 or conductor or pin))) and (optic\$2 near2 fiber)	EPO; JPO; DERWENT	2003/08/20 11:33
13	945	(fiber same (electric\$2 near4 (contact or conductor or pin))) and (optic\$2 near2 fiber)	EPO; JPO; DERWENT	2003/08/20 11:35
14	305	(fiber same (electric\$2 near4 (contact or pin))) and (optic\$2 near2 fiber)	EPO; JPO; DERWENT	2003/08/20 11:36
-	83	(385/147).ccls. and (fiber same (electric\$2 near4 (contact or connect\$3 or conductor or pin)))	USPAT; US-PGPUB; EPO; JPO	2003/08/20 08:21

PAT-NO: JP408254634A
DOCUMENT-IDENTIFIER: JP 08254634 A
TITLE: OPTICAL FIBER ASSEMBLY
PUBN-DATE: October 1, 1996

INVENTOR-INFORMATION:
NAME
WEBB, BRIAN

ASSIGNEE-INFORMATION:
NAME COUNTRY
MOTOROLA INC N/A

APPL-NO: JPO7350439
APPL-DATE: December 22, 1995

INT-CL (IPC): G02B006/42

ABSTRACT:

PROBLEM TO BE SOLVED: To provide an optical fiber assembly, which can be produced comparatively easily at low costs, and a manufacturing method therefor.

SOLUTION: An optical fiber assembly 10, which is installed in the end part, 14 of an optical fiber cable, is provided with a connector 13 provided with a matching pin, which extends in the axial direction parallel to the cable and crosses over the end part 14, a matching hole, and a substrate in which a light transmitting hole is bored so as to be matched with the end part, of an optical fiber 12 in the axial direction. The substrate is provided with a mounting pad 27, an electrically connecting pin 19, and an electric trace 28 connecting the mounting pad 27 to the connecting pin 19. A semiconductor die in which an optical element is installed on the upper face is installed on the mounting pad 27, so that each optical element is matched with a light transmitting opening 25 and is electrically connected to the electric connecting pin 19. A

sleeve
20 surrounds the connector 13 and a mounting member 18 so as to fix
them.

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PUB-NO: DE003303624C1

DOCUMENT-IDENTIFIER: DE 3303624 C1

TITLE: Plug-in connectors for optical fibres having
electrical interfaces

PUBN-DATE: July 26, 1984

INVENTOR-INFORMATION:

NAME

COUNTRY

ISEFT, HANS DIPL-ING

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WILCZEK, PETEF

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REITZ, ERHARD DIPL-ING

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ASSIGNEE-INFORMATION:

NAME

COUNTRY

TELEFONBAU & NORMALZEIT GMBH

N/A

APPL-NO: DE03303624

APPL-DATE: February 3, 1983

PRIORITY-DATA: DE03303624A (February 3, 1983)

INT-CL (IPC): G02B007/25

EUR-CL (EPC): G02B006/42 ; G02B006/38

US-CL-CURRENT: 385/76

ABSTRACT:

CHG DATE=19990617 STATUS=O> In the embodiment according to the invention of plug-in connectors for optical fibres having electrical interfaces, the plug-in contacts are rigidly attached to the optical fibre. The plug-in contacts are connected to a plug housing in which there is located in each case a hybrid circuit embodied on a substrate and fitted with semiconductor components. This hybrid circuit is constructed at one end of the optical fibre as an electrically/optically converting transmitting device, and at the other end of

the optical fibre as an optically/electrically converting receiving device.

Exclusively electrical signals are switched via the plug-in connector.

The

plug-in connector is embodied as a multiple contact, and so apart from the

signal line the power supply for the hybrid circuit located in the plug housing

is also fed.

DERWENT-ACC-NO: 1997-079654

DERWENT-WEEK: 199737

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TITLE: Electric plug device e.g. for washing machine -
has each
light opening of one part coupled to single light
receiver or transmitter

INVENTOR: EPBSE, K; GFINGMANN, K ; SCHMIDT, H ; STEFANSKI, M ;
VICKTORIUS, R

PATENT-ASSIGNEE: GEBF MERTEN GMBH & CO KG[MERTN]

PRIORITY-DATA: 1995DE-1025214 (July 11, 1995)

PATENT-FAMILY:	PUB-NO	PUB-DATE	LANGUAGE	
PAGES	MAIN-IPC			
EP 753906 A2		January 15, 1997	G	016
	H01F 013/66			
EP 753906 A3		June 18, 1997	N/A	000
	H01F 013/66			
DE 19525214 A1		January 16, 1997	N/A	016
	H01F 013/66			

DESIGNATED-STATES: AT BE CH DE ES FI FR GB GR IT LI NL PT SE

CITED-DOCUMENTS: No-SR.Pub; EP 344609 ; EP 358953 ; EP 452688 ; US
4969924

APPLICATION-DATA:	APPL-DESCRIPTOR	APPL-NO
PUB-NO		
APPL-DATE		
EP 753906A2	N/A	1996EP-0110994
July 9, 1996		
EP 753906A3	N/A	1996EP-0110994
July 9, 1996		
DE 19525214A1	N/A	1995DE-1025214
July 11, 1995		

INT-CL (IPC): G02B006/24, G02B006/38 , G02B006/42 , H01R013/66 ,
H02G003/02 , H04L012/28

ABSTRACTED-PUB-NO: EP 753906A

BASIC-ABSTRACT:

The plug device has a socket part and a plug part. The electric
contacts are
configured such that the plug can be inserted in at least to insertion

positions. The plug can be connected to a multiple fibre electric supply line and an at least single fibre optical data line such that each optical lead fibre (13,14) of the data line is coupled to a respective light opening (1,2) of the plug. Via this coupling, light signals are exchanged between the plug and socket. Thus a data exchange is guaranteed in each plug-in position of the plug.

One of the parts, i.e. the plug or the socket, has at least one more light opening (3,4,5) more than the other. At least two openings (3,4,5) of one of the parts are provided to transmit light. In one plug position, a light opening (3) is coupled to a light opening (2) of the other part. In the other position another opening of the part is coupled to an opening of the other part. Each light opening (3,4,5) of one part is coupled to a particular light receiver (65) or light transmitter (64).

ADVANTAGE - Guarantees transmission of light signals in two different plug positions.

CHOSEN-DRAWING: Dwg.12/12

TITLE-TERMS: ELECTRIC PLUG DEVICE WASHING MACHINE LIGHT OPEN ONE PART
COUPLE

SINGLE LIGHT RECEIVE TRANSMIT

DERWENT-CLASS: F81 V04 V07 X27

EPI-CODES: V04-D05; V07-G; X27-D01A;

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N1997-066106